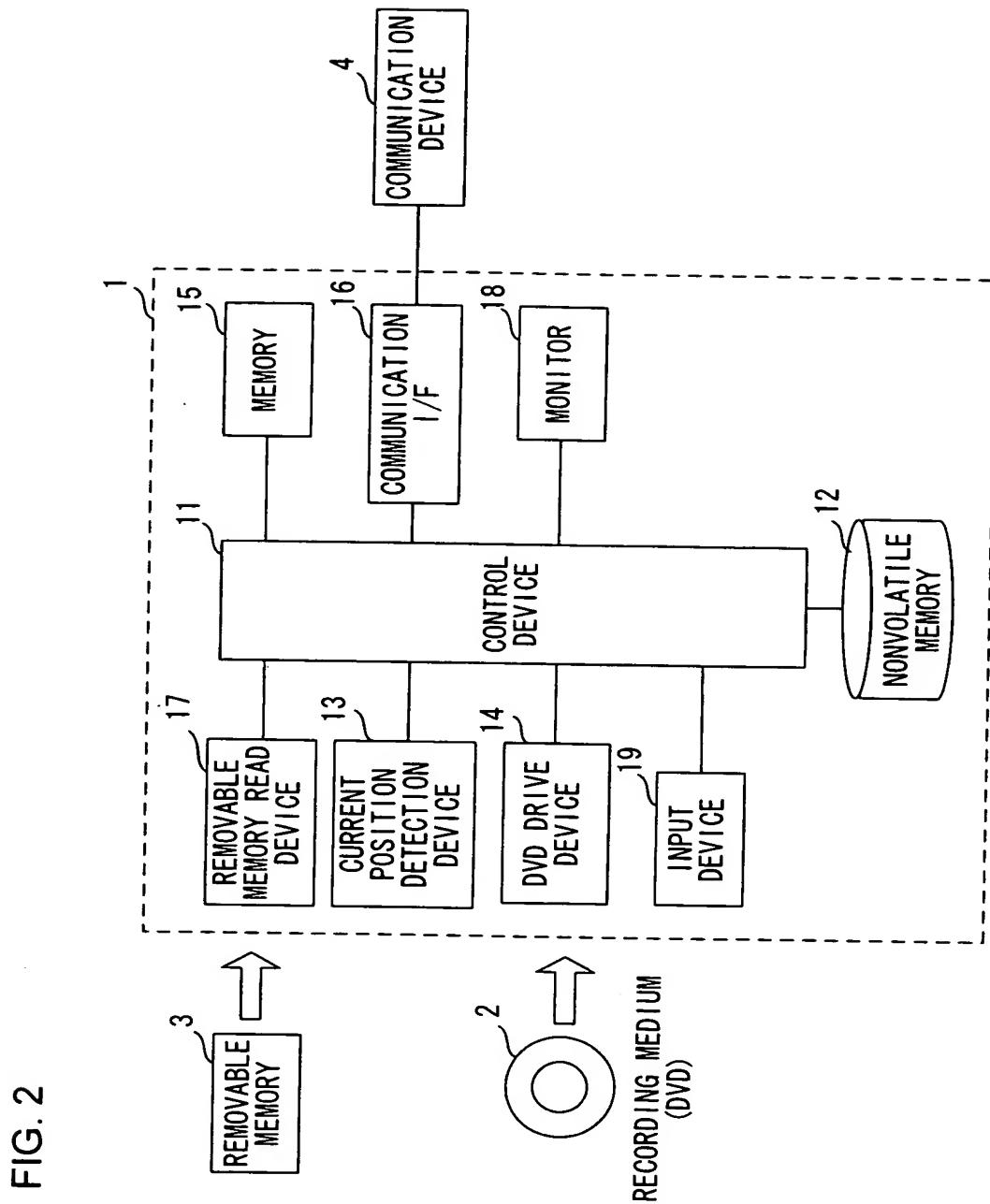


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FIG. 3

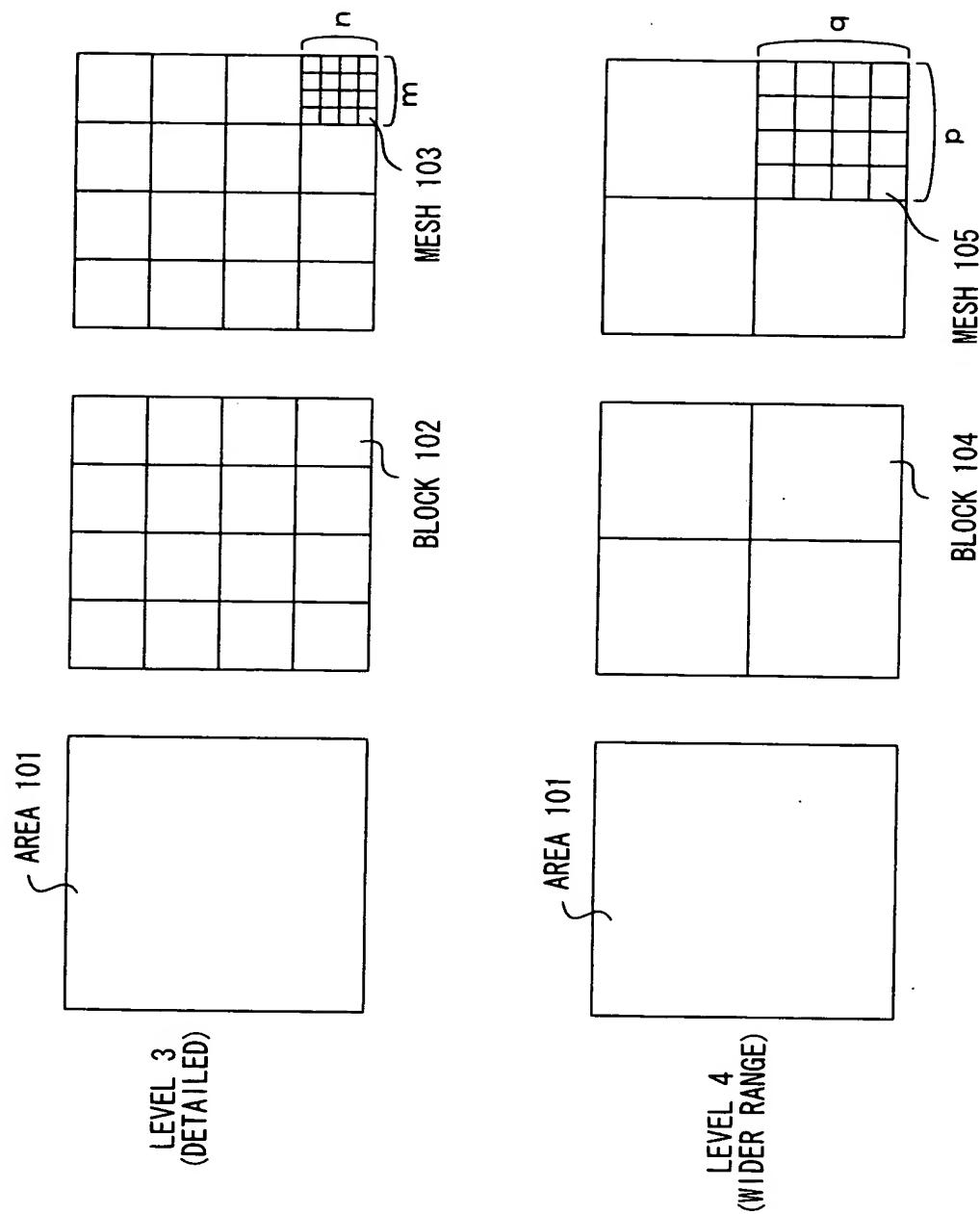
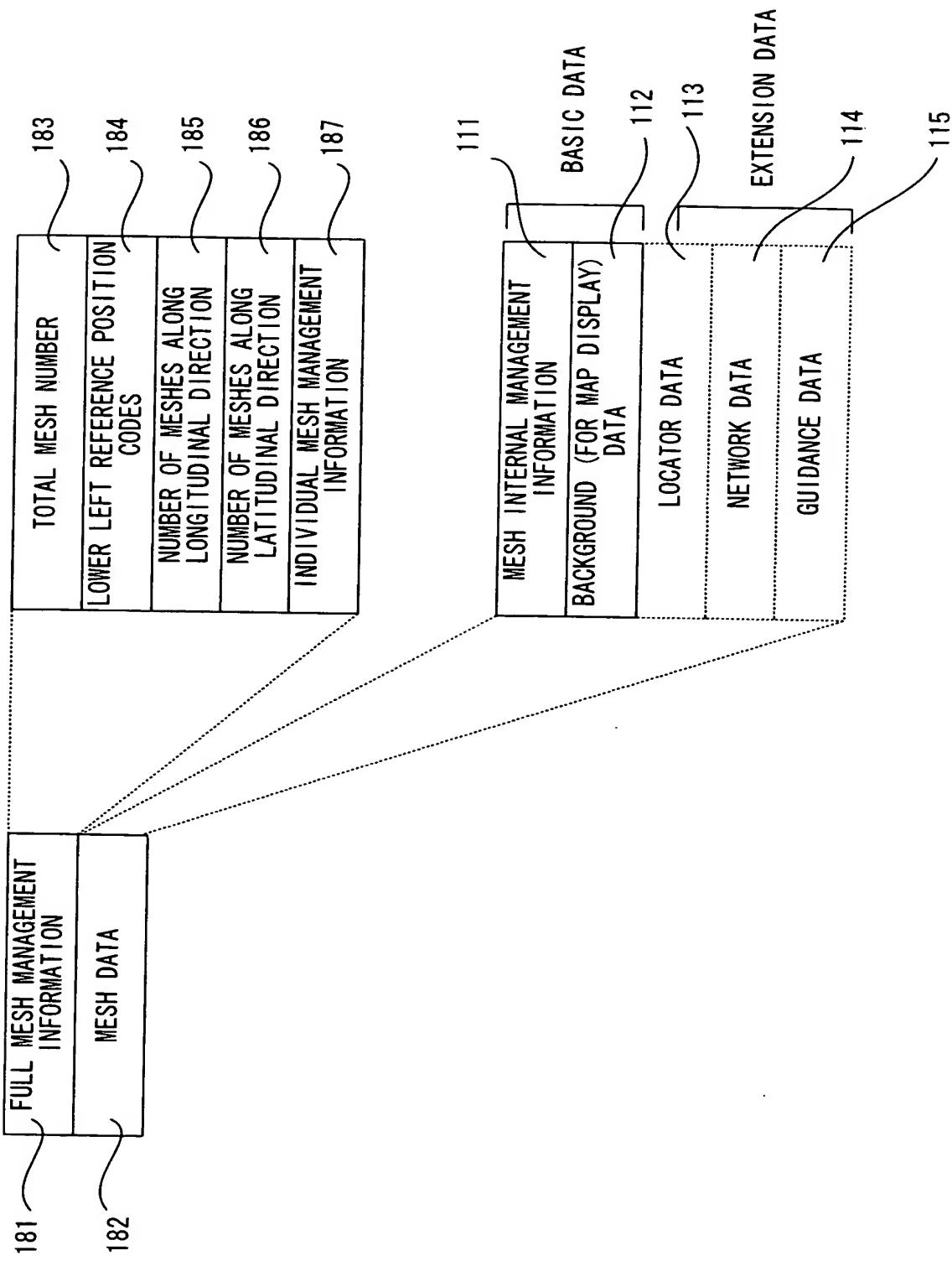
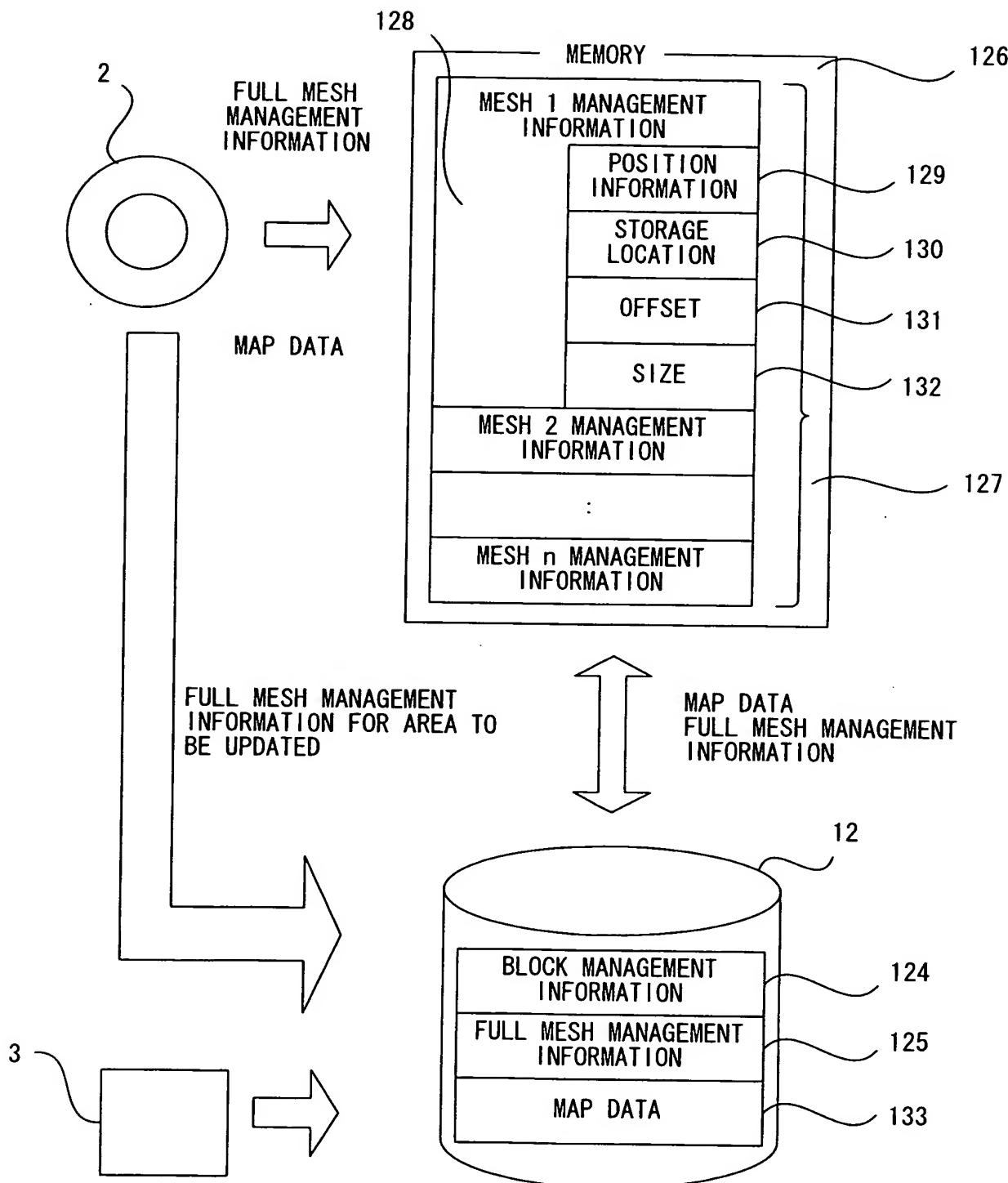


FIG. 4



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FIG. 5



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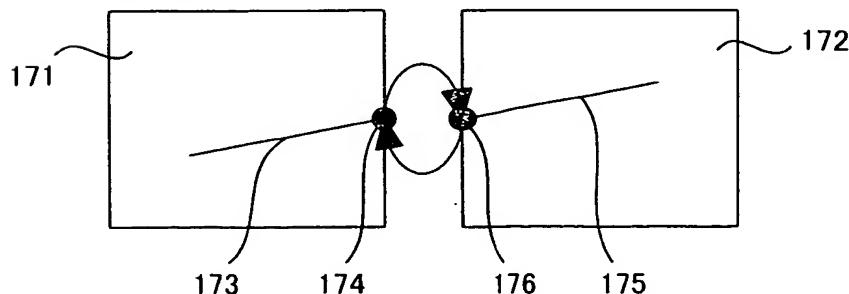
FIG. 6

OVERALL MANAGEMENT INFORMATION	151
STORED DATA INFORMATION	152
LEVEL MANAGEMENT INFORMATION	153
LEVEL 0 BLOCK MANAGEMENT INFORMATION	154
:	
LEVEL 6 BLOCK MANAGEMENT INFORMATION	
LEVEL 0-1 FULL MESH MANAGEMENT INFORMATION	155
:	
LEVEL 0-m FULL MESH MANAGEMENT INFORMATION	
LEVEL 1-1 FULL MESH MANAGEMENT INFORMATION	
:	
LEVEL 6-p FULL MESH MANAGEMENT INFORMATION	
MAP DATA 1	156
:	
MAP DATA n	

FIG. 7

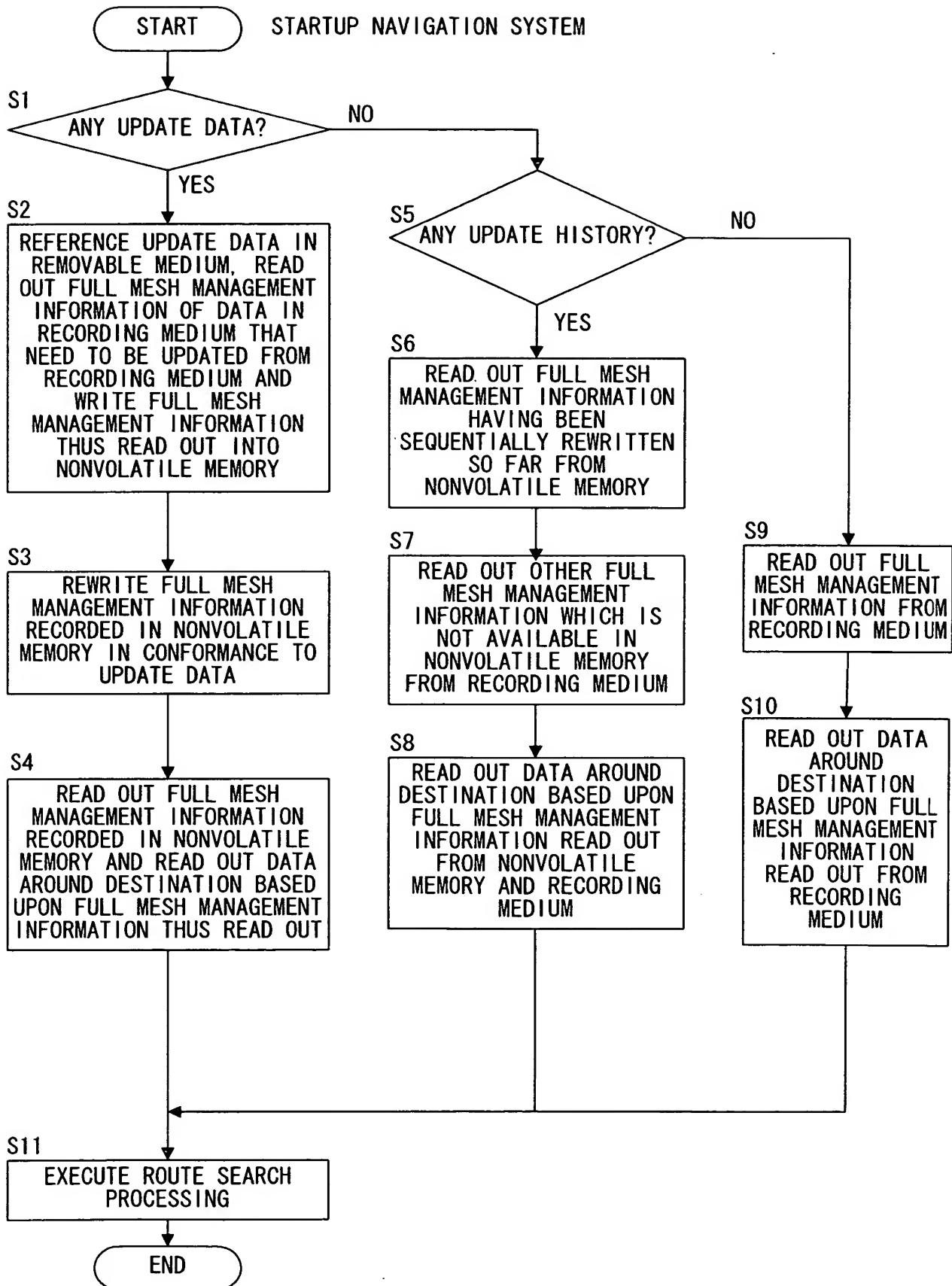
MESH INFORMATION	161
BACKGROUND MANAGEMENT INFORMATION	162
EXTENSION DATA IDENTIFICATION INFORMATION	163
EXTENSION DATA 1 MANAGEMENT INFORMATION	164
:	
EXTENSION DATA n MANAGEMENT INFORMATION	164

FIG. 8



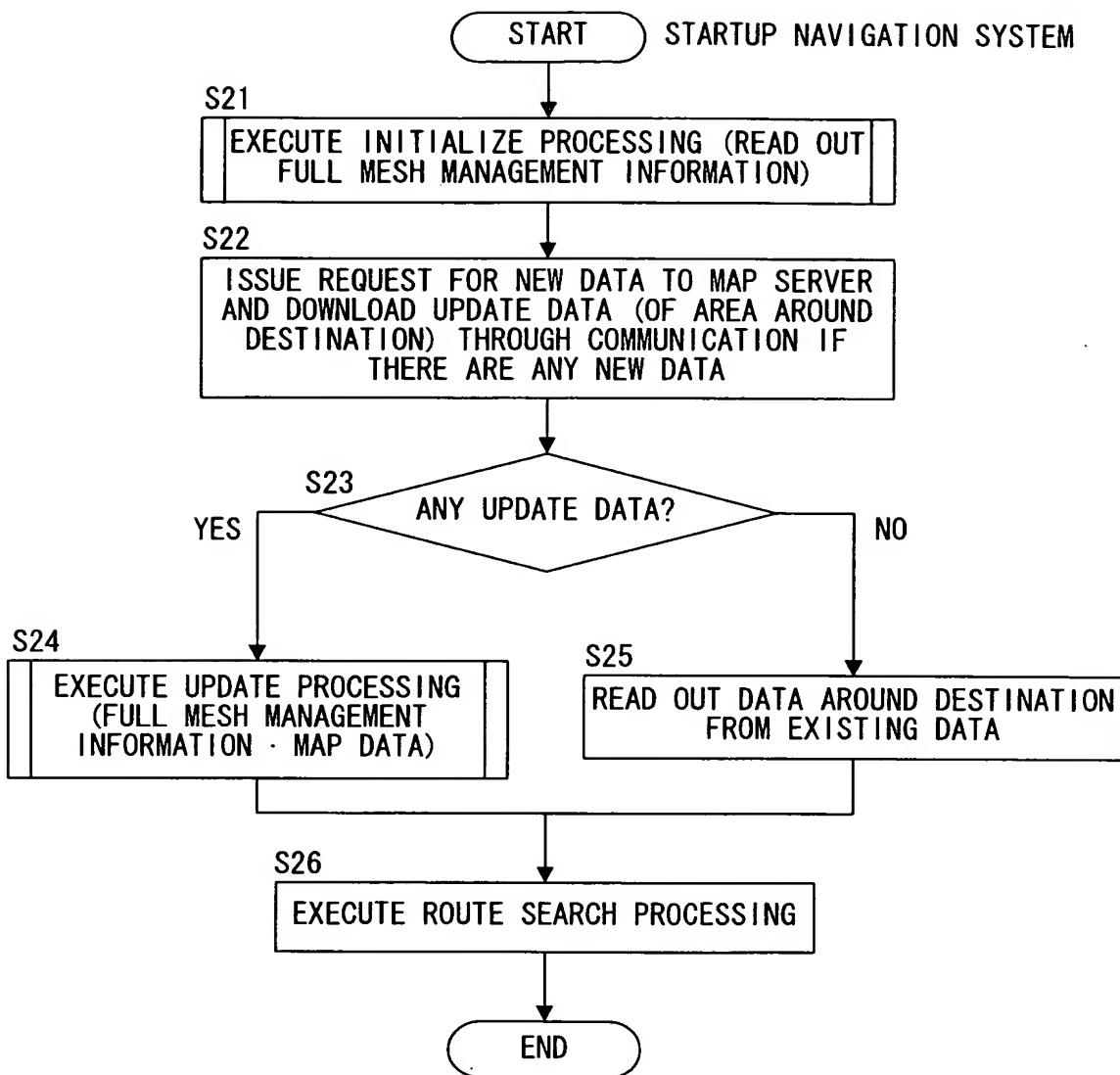
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FIG. 9



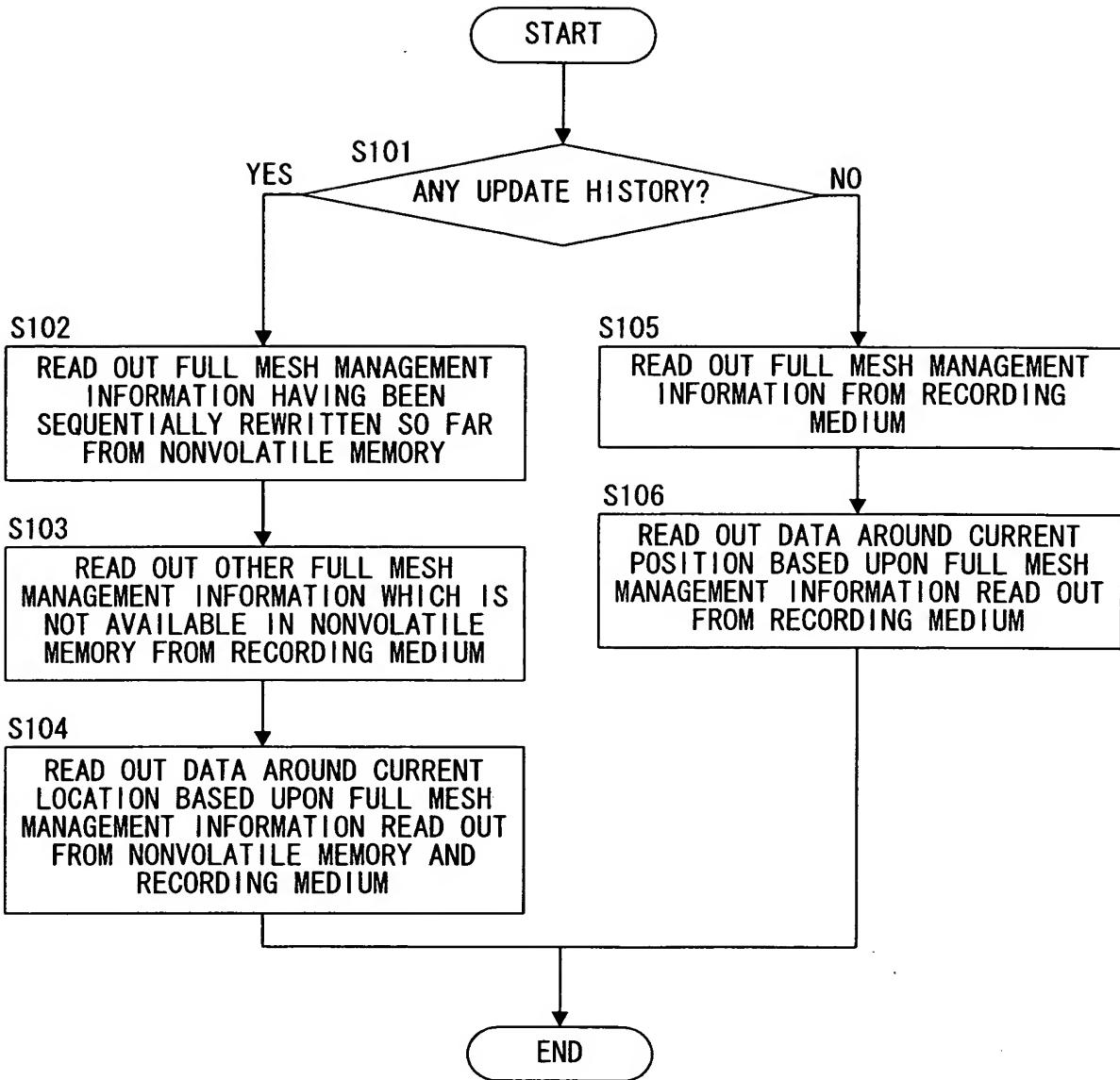
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FIG. 10



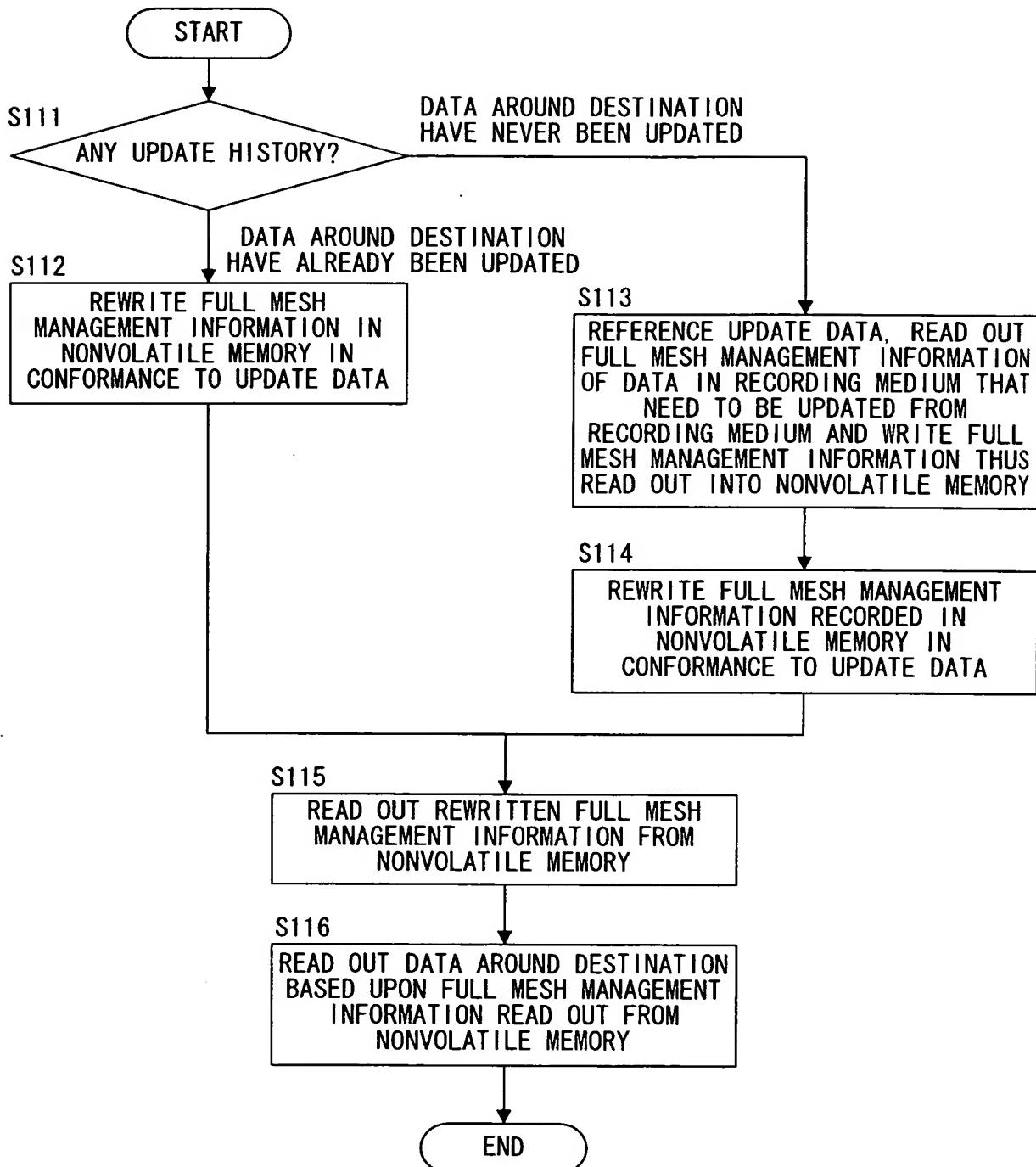
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FIG. 11



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FIG. 12



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FIG.13

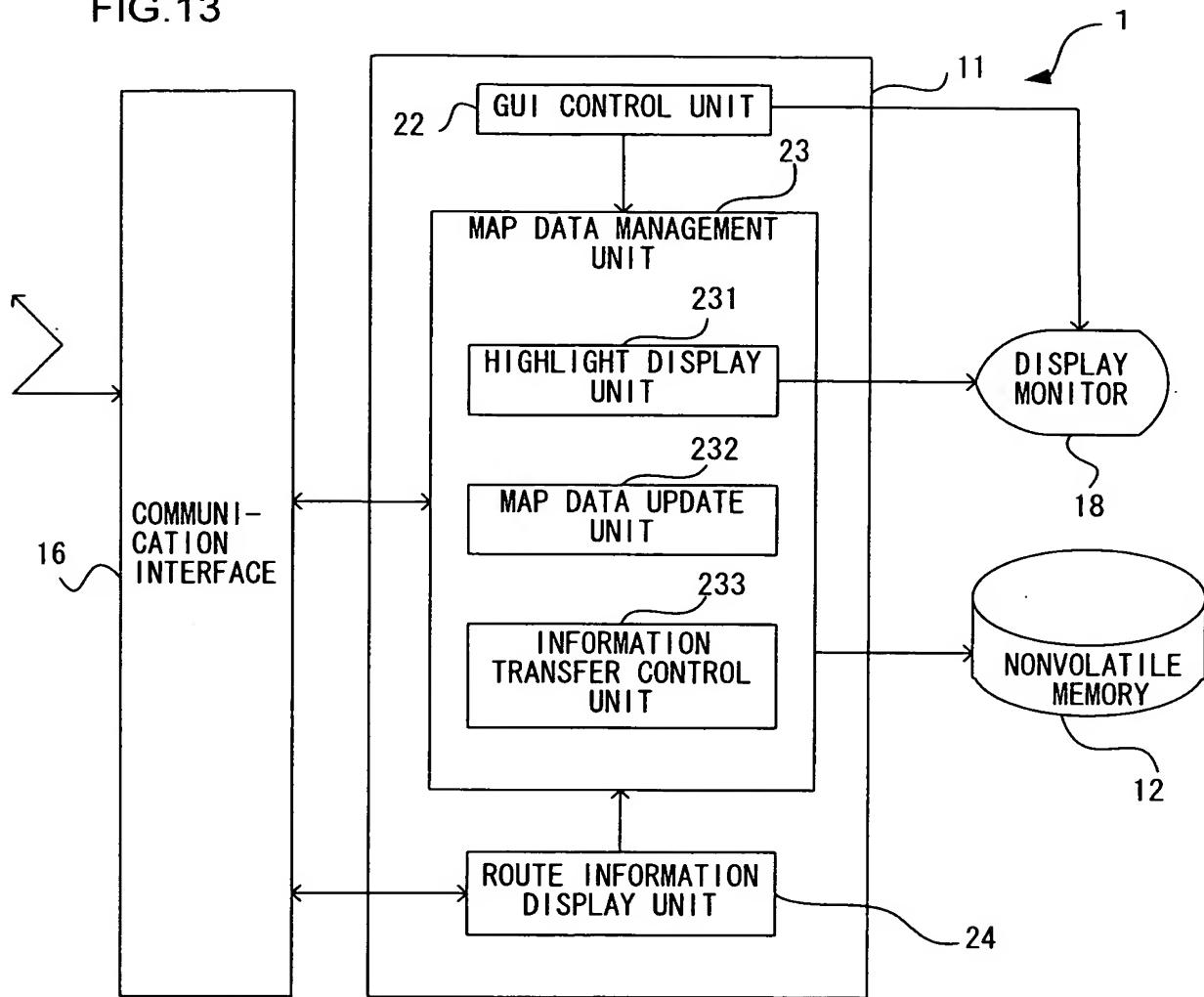
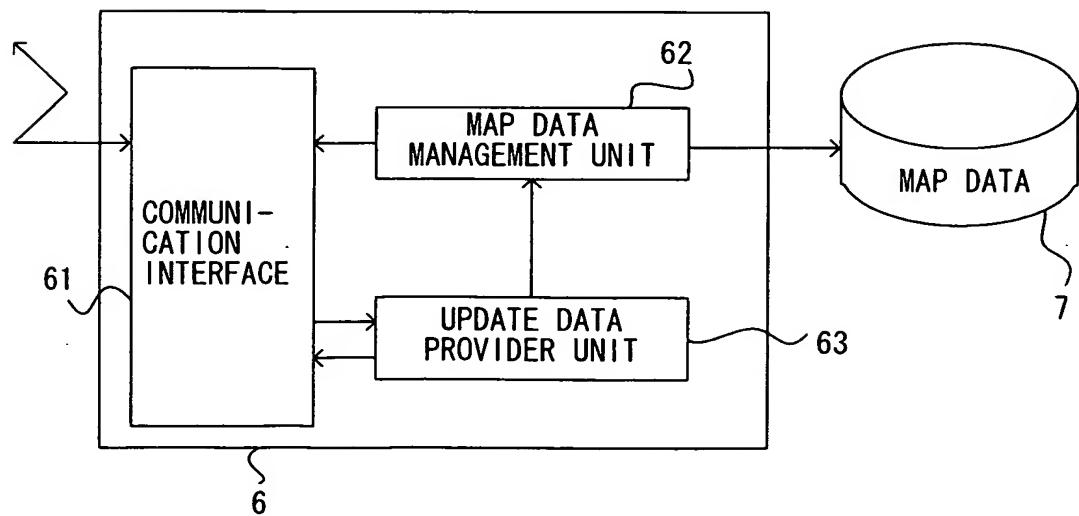
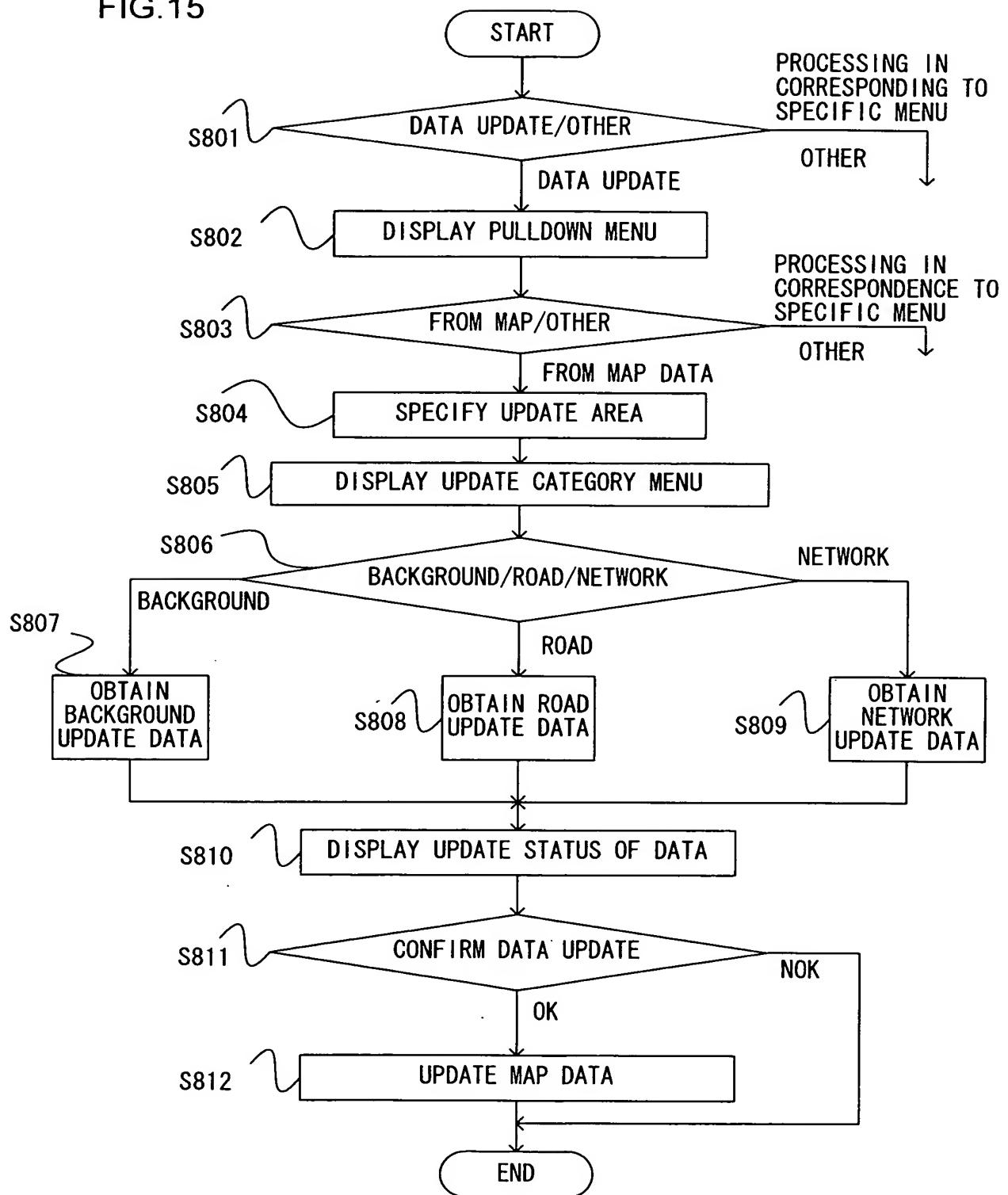


FIG.14

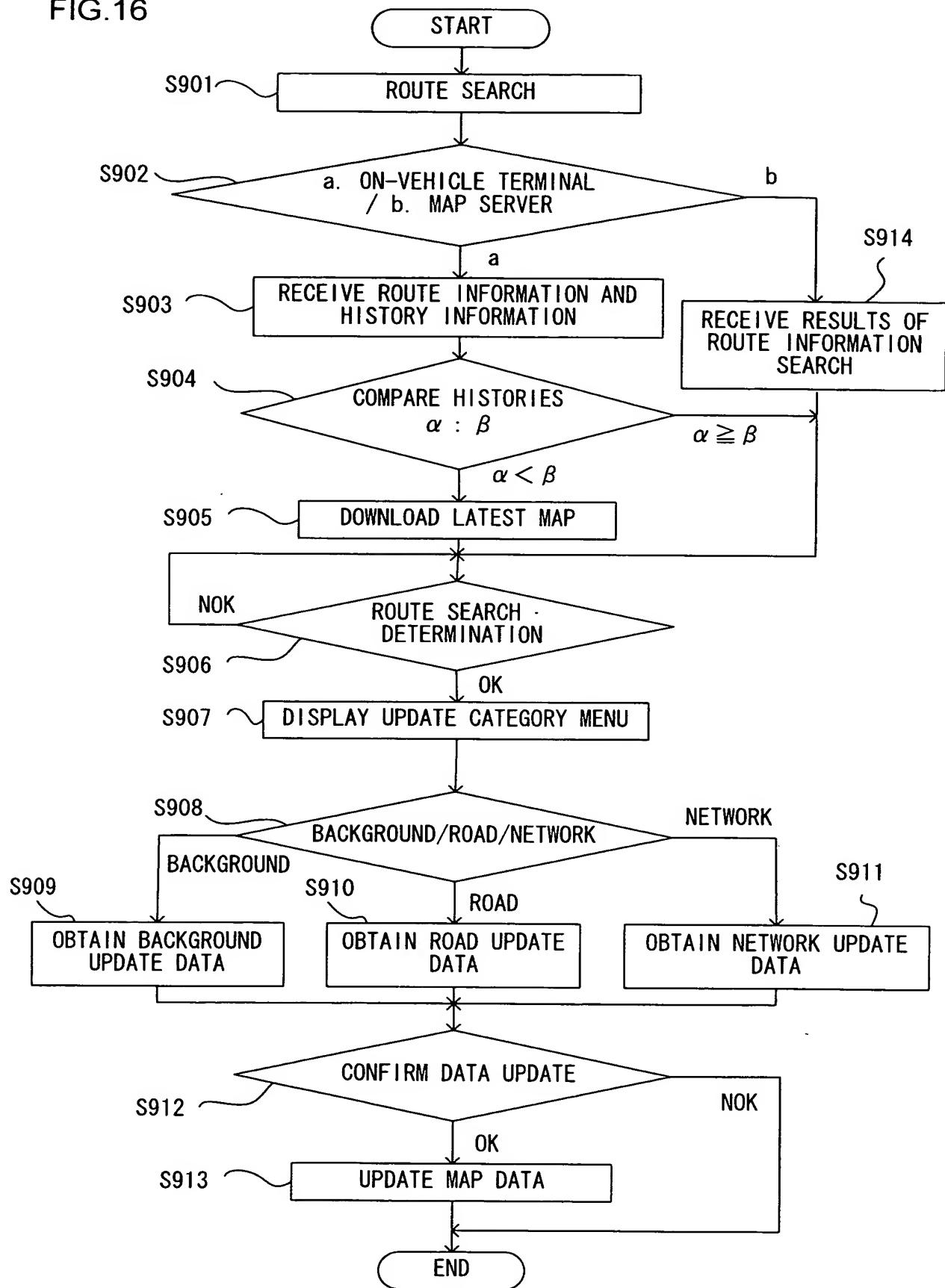


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FIG.15



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FIG.16



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FIG.17

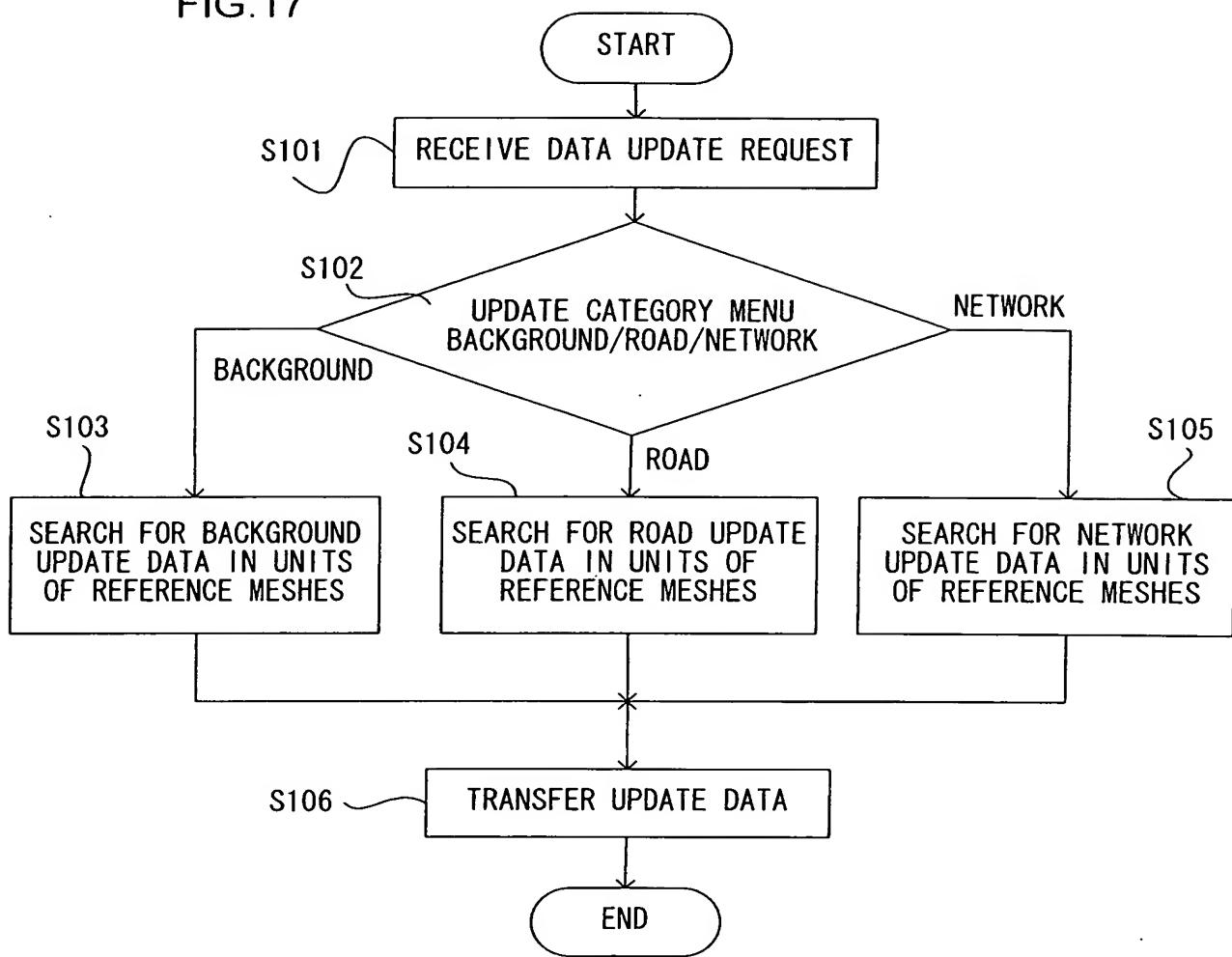
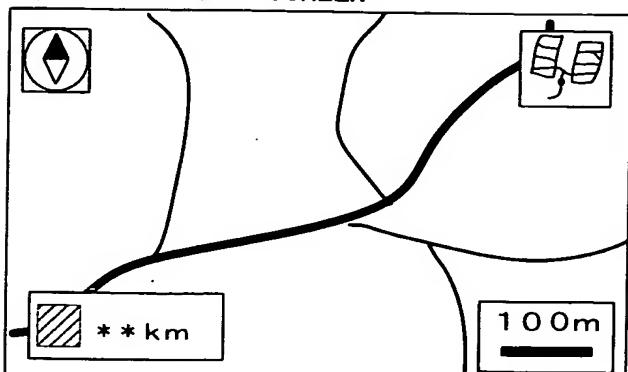


FIG.18

(a) REGULAR MAP SCREEN



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(c)

UPDATE DATA	VERIFY ROUTE	REGI-STER	VIEW INFOR-	SELECT SETTINGS
FROM MAP				
SPECIFIC REGION				
SPECIFIC ROAD				
ALONG ROUTE TO DESTINATION				
GUIDE SEARCH INFORMATION				
...				
*** UPDATE DATA ***				

TO FIG. 19
SELECT UPDATE DATA IN MAP ON DISPLAY

(b) SELECT DATA UPDATE MENU

UPDATE DATA	VERIFY ROUTE	REGI-STER	VIEW INFOR-	SELECT SETTINGS
FROM MAP				
SPECIFIC REGION				
SPECIFIC ROAD				
ALONG ROUTE TO DESTINATION				
GUIDE SEARCH INFORMATION				
SPECIFIC CATEGORY				
...				
*** UPDATE DATA ***				

SELECT UPDATE DATA BASED UPON
(g) GUIDE SEARCH INFORMATION

UPDATE DATA	VERIFY ROUTE	REGI-STER	VIEW INFOR-	SELECT SETTINGS
FROM MAP				
SPECIFIC REGION				
SPECIFIC ROAD				
ALONG ROUTE TO DESTINATION				
GUIDE SEARCH INFORMATION				
...				
*** UPDATE DATA ***				

SELECT UPDATE DATA IN TO FIG. 23
(h) SPECIFIC CATEGORY

UPDATE DATA	VERIFY ROUTE	REGI-STER	VIEW INFOR-	SELECT SETTINGS
FROM MAP				
SPECIFIC REGION				
SPECIFIC ROAD				
ALONG ROUTE TO DESTINATION				
GUIDE SEARCH INFORMATION				
SPECIFIC CATEGORY				
...				
*** UPDATE DATA ***				

TO FIG. 17

UPDATE DATA	VERIFY ROUTE	REGI-STER	VIEW INFOR-	SELECT SETTINGS
FROM MAP				
SPECIFIC REGION				
SPECIFIC ROAD				
ALONG ROUTE TO DESTINATION				
GUIDE SEARCH INFORMATION				
...				
*** UPDATE DATA ***				

TO FIG. 20
SELECT UPDATE DATA IN SPECIFIC REGION

UPDATE DATA	VERIFY ROUTE	REGI-STER	VIEW INFOR-	SELECT SETTINGS
FROM MAP				
SPECIFIC REGION				
SPECIFIC ROAD				
ALONG ROUTE TO DESTINATION				
GUIDE SEARCH INFORMATION				
...				
*** UPDATE DATA ***				

TO FIG. 21
SELECT UPDATE DATA ALONG SPECIFIC ROAD

UPDATE DATA	VERIFY ROUTE	REGI-STER	VIEW INFOR-	SELECT SETTINGS
FROM MAP				
SPECIFIC REGION				
SPECIFIC ROAD				
ALONG ROUTE TO DESTINATION				
GUIDE SEARCH INFORMATION				
...				
*** UPDATE DATA ***				

TO FIG. 22
SELECT UPDATE DATA ALONG SEARCHED ROUTE

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FIG.19

(a)

UPDATE DATA	VERIFY ROUTE	REGISTER	VIEW INFORMATION	SELECT SETTINGS
FROM MAP SPECIFIC REGION SPECIFIC ROAD ALONG ROUTE TO DESTINATION GUIDE SEARCH INFORMATION . . .				
100m				
*** UPDATE DATA ***				

SELECT "FROM MAP"

(b)

UPDATE DATA	VERIFY ROUTE	REGISTER	VIEW INFORMATION	SELECT SETTINGS
FROM MAP FROM CURRENT MAP FROM MAP OF JAPAN . . .				
100m				
*** UPDATE DATA ***				

SELECT "FROM CURRENT MAP"

(c)

UPDATE DATA	VERIFY ROUTE	REGISTER	VIEW INFORMATION	SELECT SETTINGS
FROM MAP FROM CURRENT MAP FROM MAP OF JAPAN . . .				
SELECT CATEGORY <input type="checkbox"/> BACKGROUND <input checked="" type="checkbox"/> ROAD <input checked="" type="checkbox"/> NETWORK <input checked="" type="checkbox"/> GUIDANCE <input type="checkbox"/> GUIDE SEARCH				
*** UPDATE DATA ***				

SELECT CATEGORY FOR DATA UPDATE AND THEN SELECT "OK"

(d)

		DATA UPDATE STATUS
		VOLUME . . kbyte
		APPROXIMATELY . . SEC
		UPDATE DATA?

SELECT "YES" TO UPDATE DATA

(e)

	DATA UPDATE IN PROGRESS

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FIG.20

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(a)

UPDATE DATA	VERIFY ROUTE	REGISTER	VIEW INFORMATION	SELECT SETTINGS
FROM MAP				
SPECIFIC REGION				
SPECIFIC ROAD				
ALONG ROUTE TO DESTINATION				
GUIDE SEARCH INFORMATION				
...				
100m				
* * * UPDATE DATA * * *				

(b) ↓ SELECT "SPECIFIC REGION"

UPDATE DATA	VERIFY ROUTE	REGISTER	VIEW INFORMATION	SELECT SETTINGS
FROM MAP				
PREFECTURE, MUNICIPALITY				
TOURIST SPOT				
...				
...				
...				
100m				
* * * UPDATE DATA * * *				

(c) ↓ SELECT "PREFECTURE, MUNICIPALITY"

UPDATE DATA	VERIFY ROUTE	REGISTER	VIEW INFORMATION	SELECT SETTINGS
FROM MAP				
TOKYO				
KANAGAWA PREFECTURE				
CHIBA PREFECTURE				
...				
...				
100m				
* * * UPDATE DATA * * *				

(d) ↓ SELECT "KANAGAWA PREFECTURE"

UPDATE DATA	VERIFY ROUTE	REGISTER	VIEW INFORMATION	SELECT SETTINGS
FROM MAP				
KAWASAKI CITY				
YOKOHAMA CITY				
ZAMA CITY				
...				
100m				
* * * UPDATE DATA * * *				

SELECT "YOKOHAMA CITY"

(e)

UPDATE DATA	VERIFY ROUTE	REGISTER	VIEW INFORMATION	SELECT SETTINGS
FROM MAP				
KAWASAKI CITY				
YOKOHAMA CITY				
ZAMA CITY				
...				
* * * UPDATE DATA * * *				

SELECT CATEGORY

<input type="checkbox"/> BACKGROUND
<input checked="" type="checkbox"/> ROAD
<input type="checkbox"/> NETWORK
<input type="checkbox"/> GUIDANCE
<input type="checkbox"/> GUIDE SEARCH

SELECT CATEGORY FOR DATA UPDATE AND THEN SELECT "OK"

(f)

UPDATE DATA	VERIFY ROUTE	REGISTER	VIEW INFORMATION	SELECT SETTINGS
FROM MAP				
KAWASAKI CITY				
YOKOHAMA CITY				
ZAMA CITY				
...				
* * * UPDATE DATA * * *				

NEW DATA AVAILABLE

VOLUME - - kbyte APPROXIMATELY - - SEC	
<input type="checkbox"/> UPDATE DATA?	
<input type="checkbox"/> YES	<input type="checkbox"/> NO

(g)

UPDATE DATA	VERIFY ROUTE	REGISTER	VIEW INFORMATION	SELECT SETTINGS
FROM MAP				
KAWASAKI CITY				
YOKOHAMA CITY				
ZAMA CITY				
...				
* * * UPDATE DATA * * *				

DATA UPDATE IN PROGRESS

SELECT "YES" TO UPDATE DATA

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FIG.21

(a)

UPDATE DATA	VERIFY ROUTE	REGISTER	VIEW INFORMATION	SELECT SETTINGS
FROM MAP				
SPECIFIC REGION				
SPECIFIC ROAD				
ALONG ROUTE TO DESTINATION				
GUIDE SEARCH INFORMATION				
* * * UPDATE DATA * * *				

SELECT "SPECIFIC ROAD"

(c)

UPDATE DATA	VERIFY ROUTE	REGISTER	VIEW INFORMATION	SELECT SETTINGS
FROM MAP				
SHUTOKOH EXPRESS CIRCLE TOMEI EXPRESS HIGHWAY HANSHIN EXPRESS HIGHWAY HAKONE SKYLINE HIGHWAY . . .				
SELECT CATEGORY <input type="checkbox"/> BACKGROUND <input checked="" type="checkbox"/> ROAD <input checked="" type="checkbox"/> NETWORK <input checked="" type="checkbox"/> GUIDANCE <input type="checkbox"/> GUIDE SEARCH				
OK				
* * * UPDATE DATA * * *				

SELECT "YES" TO UPDATE DATA

(e)

UPDATE DATA	VERIFY ROUTE	REGISTER	VIEW INFORMATION	SELECT SETTINGS
FROM MAP				
SHUTOKOH EXPRESS CIRCLE TOMEI EXPRESS HIGHWAY HANSHIN EXPRESS HIGHWAY HAKONE SKYLINE HIGHWAY . . .				
DATA UPDATE IN PROGRESS  CANCEL				
* * * UPDATE DATA * * *				

(b)

UPDATE DATA	VERIFY ROUTE	REGISTER	VIEW INFORMATION	SELECT SETTINGS
FROM MAP				
SHUTOKOH EXPRESS CIRCLE ROUTE TOMEI EXPRESS HIGHWAY HANSHIN EXPRESS HIGHWAY HAKONE SKYLINE HIGHWAY . . .				
* * * UPDATE DATA * * *				

SELECT CATEGORY FOR DATA UPDATE AND THEN SELECT "OK"

(d)

UPDATE DATA	VERIFY ROUTE	REGISTER	VIEW INFORMATION	SELECT SETTINGS
FROM MAP				
SHUTOKOH EXPRESS CIRCLE TOMEI EXPRESS HIGHWAY HANSHIN EXPRESS HIGHWAY HAKONE SKYLINE HIGHWAY . . .				
DATA UPDATE STATUS VOLUME . . kbyte APPROXIMATELY . . SEC UPDATE DATA? <input type="button" value="YES"/> <input type="button" value="NO"/>				
* * * UPDATE DATA * * *				

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FIG.22

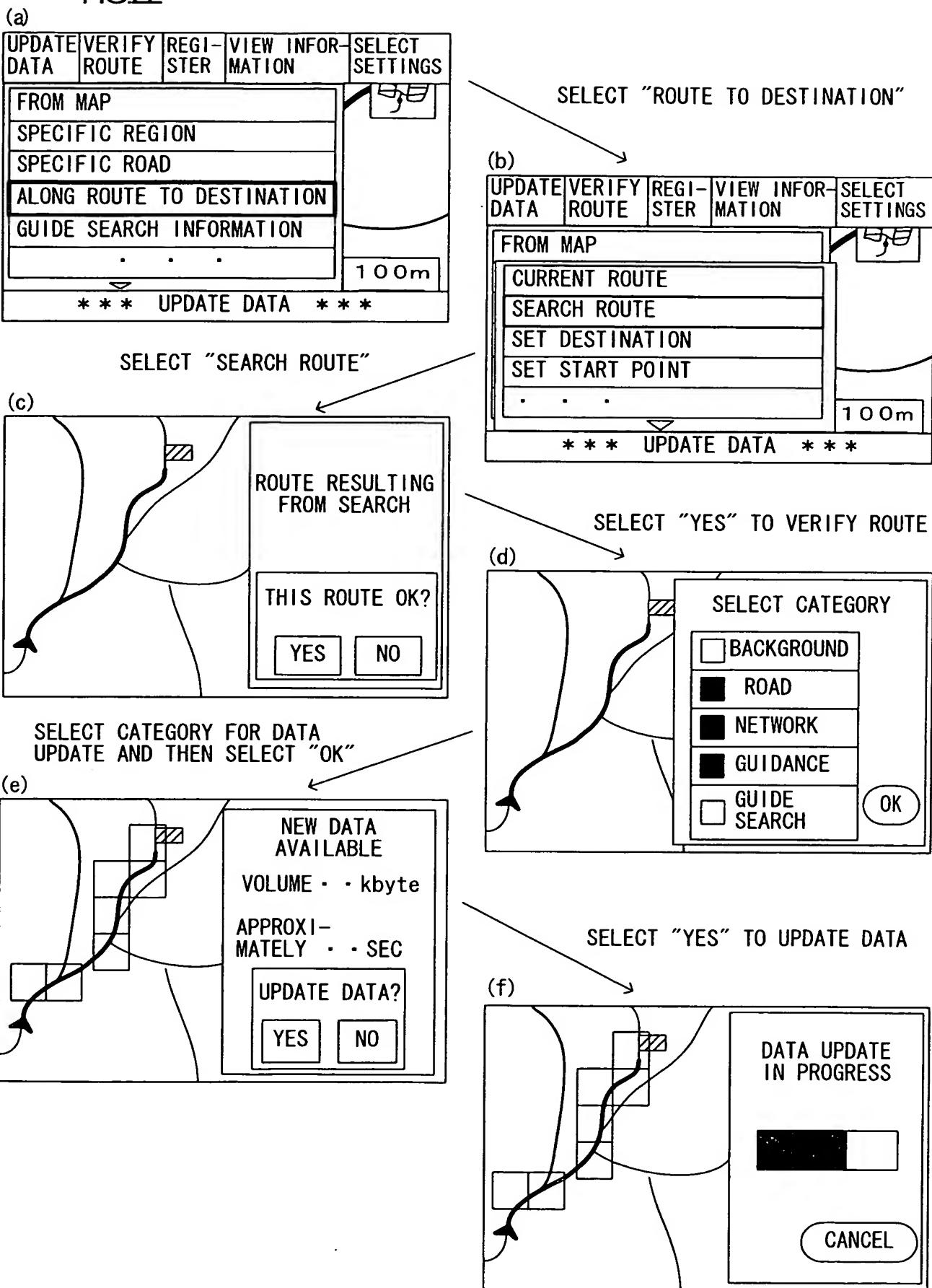
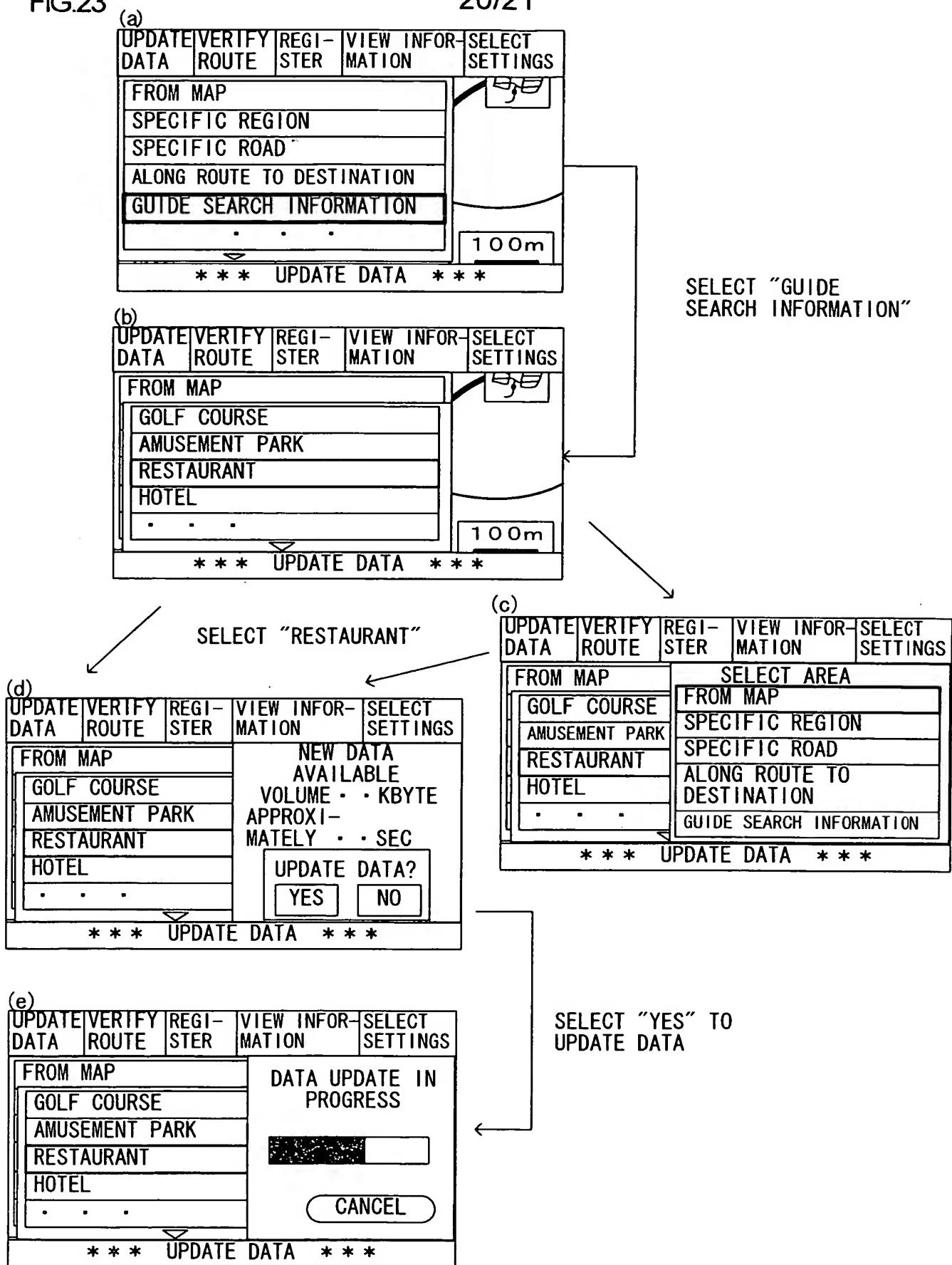


FIG.23

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FIG.24

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